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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/750,837		12/28/2000	Rainer Loesch .	2345/17A	2345/17A 1255		
26646	7590	01/17/2002					
KENYON & KENYON				EXAM	EXAMINER		
	NE BROADWAY EW YORK, NY 10004			FERGUSON, L	FERGUSON, LAWRENCE D		
				ART UNIT	PAPER NUMBER		
				1774	2		
				DATE MAILED: 01/17/2002	DATE MAILED: 01/17/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

				ME					
•	Application I	No.	Applicant(s)	14 11 9					
	09/750,837		LOESCH ET AL.						
Office Action Summary	Examiner		Art Unit						
	Lawrence D f	- erguson	1774						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address									
Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replication of the period for reply is specified above, the maximum statutory period vibration. - Failure to reply within the set or extended period for reply will, by statute. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, I y within the statutory will apply and will ex y, cause the applicati g date of this commu	however, may a reply be time minimum of thirty (30) days pire SIX (6) MONTHS from to ton to become ABANDONED	ely filed will be considered timely, he mailing date of this con 1 (35 U.S.C. § 133).	nmunication.					
1) Responsive to communication(s) filed on									
, _	is action is no								
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims									
4) \boxtimes Claim(s) <u>1-5</u> is/are pending in the application.									
4a) Of the above claim(s) is/are withdraw	wn from consid	deration.		•					
5) Claim(s) is/are allowed.		,							
6)⊠ Claim(s) <u>1-5</u> is/are rejected.		·							
7) Claim(s) is/are objected to.									
8) Claim(s) are subject to restriction and/o	r election requ	irement.							
Application Papers									
9) The specification is objected to by the Examiner.									
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12)☐ The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ⊠ None of:									
1. Certified copies of the priority document									
2. Certified copies of the priority document									
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
a) ☐ The translation of the foreign language provisional application has been received.									
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachment(s)									
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5)	Notice of Informal P	(PTO-413) Paper No(s atent Application (PTO						

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Application/Control Number: 09/750,837

Art Unit: 1774

DETAILED ACTION

Claim Rejections - 35 USC § 103(a)

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saaski et al. (U.S. 4,778,987) in view of Fischer (U.S. 5,929,633).

Saaski discloses a measuring device (column 1, lines 23-24) providing a high degree of resolution in measuring physical parameters (column 1, lines 36-37). Saaski discloses calibrated measuring device (column 2, lines 67-68) which serves the same function as a scale for technical devices. The reference discloses two or more alternating layers of chrome and silicon (column 18, lines 67-68) with each layer being about 25 and 100 Angstroms thick, respectively (2.5nm and 10nm) (column 19, lines 2-4). Saaski further discloses the silicon being crystalline (column 29, line 20). Saaski does not disclose chrome being crystalline. Because the reference uses the same materials as applicant and because the first and second material layers are made out of different materials and different thicknesses, it would have been obvious to one of ordinary skill in the art that the first and second material layers have different strain and band gaps, absent any evidence to the contrary. Additionally, it would have been obvious to one of ordinary skill in the art to include third and fourth material layers because the reference teaches *two or more* alternating layers meaning third and fourth material layers can be added to the invention.

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Fischer teaches a device for measuring (abstract and column 1; line 57) with crystalline chrome layers. Saaski and Fischer are analogous art because they are from the same field of measuring devices. It would have been obvious to one of ordinary skill to include a crystalline chrome layer in the measuring device of Saaski because Fischer teaches that crystalline chrome layers are conventional in the art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence Ferguson whose telephone number is (703) 305-9978. The examiner can normally be reached on Monday through Friday 8:30 AM – 4:30PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on (703) 308-0449. Please allow the examiner twenty-four hours to return your call.

The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-2351.

Lawrence D. Ferguson

Examiner

Art Unit 1774

CYNTHIA H. KELLY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700

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